

Lesson 3-3

Writing Algebraic Expressions

Name: _____

Date: _____

Period: _____



Homework Video Tutor

Web Code: aqe-0303

Objective: We will be able to use algebraic expressions to solve problems

Example 1: Write an expression for “*the product of 7 and k* ”



Quick Check: Write an expression for “*2 more than x* ”

Example 2: You go bowling and bowl three games. Shoe rental for the day was \$1.75. Write an algebraic expression for the total amount you pay.

Let g = the cost of the game



Quick Check:

Retail A newspaper advertisement reads, “Buy 3 T-shirts of the same kind, take \$5 off the total price.” Let t represent the cost of one T-shirt. Write an algebraic expression that describes the situation.

Total Cost			5
t	t	t	

Example 3:

From a Pattern to an Expression Write an expression to describe the relationship of the data in the table.

n	
1	3
4	12
5	15

$$1 \times \square = 3$$

$$4 \times \square = 12$$

$$5 \times \square = 15$$

Multiplying each number in the first column by \square gives you the number in the second column.

**Quick Check:**

Write an algebraic expression to describe the relationship in each table.

a.

n	
2	1
6	3
9	4.5

b.

n	
2	6
5	9
7	11

Homework Exercises

8. Write an expression to describe the relationship of the data in the table.

n	
15	19
20	24
25	29

Write a variable expression for each word phrase.

9. nine less than t

10. eleven more than a number

11. the quotient of 700 and a number

12. two times the number of windows

13. b divided by seven

14. 81 increased by n

